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RRRRRRRRRRRR
RRRRRRRRRRR
RRR RRR
RRR RRR
RRR RRR
RRR RRR
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                                                            FFF
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                              RRR
RRR
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                                                   RRR
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RRR
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Va

\$	BBBBBBBB BBBBBBBB BB BB BB BB BB BB BBBBBB	1111 1111 1111 1111 1111 111111 1111111	111 1111 1111 1111 111 111 111 111 111	
		\$		
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$		

SB1

PRO

EN1

VAF

Page

Subroutine SB11 (lun)

C Version:

C*

C*

 'V04-000'

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Author: Sharon Reynolds

Creation date: 20-Jan-1981

Functional description:

This module produces the error log report for the SB11 DECdataway I/O subsystem.

Modified by:

V03-003 SAR0234 Sharon A. Reynolds, 28-Mar-1984 Changed the call to UCB\$L_OWNUIC to ORB\$L_OWNER.

V03-002 SAR0110 Sharon A. Reynolds, 23-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-001 SAR0035 Sharon A. Reynolds, 8-Jun-1983 Removed brief/cryptic support.

v02-004 BP0004 Brian Porter, 23-NOV-1981 Minor edit.

v02-003 BP0003 Brian Porter, 05-NOV-1981 Added 'device attention' support.

v02-002 BP0002 Brian Porter, 23-JUL-1981 Added new uba routines.

```
.....
                                   BP0001 Brian Porter, 15-JUL-1981 Misc. changes made by S. Reynolds in response to input from W. Saltz. Added call to DHEAD1.
                        v02-001 BP0001
                        Include 'SRC$: MSGHDR.FOR /NOLIST' Include 'SRC$: DEVERR.FOR /NOLIST'
                        Byte
                                               lun
                                               hdr_map_valid
dat_map_valid
att_ucbU
port_id
                        Byte
                        Byte
                        Byte
                        Byte
                        Integer*2
Integer*2
                                               csrO
                                               csr1
                        Integer*2
                                               csr2
                                               COMPRESS4
                        Integer*4
                        Integer*4
                                               COMPRESSO
                                               no_irp
                        Integer*4
                        Integer*4
                        Integer*4
                                               unit
                        Integer*4
                                               devdepend
                        Integer*4
                                               devsts
                                               tt_retry_cnt
tt_protocol_err
tumble_table
registers
                        Integer*4
                        Integer*4
                        Integer*4
                        Integer*4
                                               err_sts
uba_reg1(0:2)
uba_reg2(0:2)
                        Integer*4
                        Integer*4
                        Integer*4
                                               dataway_addr
                        Integer*4
                        Parameter
                                               timeout = 96
                        Parameter
                                               rt80 = 1
                                               dyt01 = 2dpm01 = 4
                        Parameter
                        Parameter
                        Parameter
                                               dis = 8
                                               tt_protocol_id(0:7)
tumble_tbl(5:7)
err_num(0:31)
func(0:7)
                        Character*83
                        Character*15
                        Character*35
                        Character*29
                                               csr0_1(5:7)
csr2_1(6:7)
device(1:8)
                        Character*22
Character*32
                        Character*6
                        Character*46
                                               dvsts(0:11)
                       Make the register save area of the error log buffer available
                        to this module
```

Equivalence (err_sts,EMB\$L_DV_REGSAV(0)) (registers, EMB\$L_DV_REGSAV(1)) Equivalence

```
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
SB11
                                                                                                                                VAX-11 FORTRAN V3.4-56
                                                                                                                               DISKSVMSMASTER: [ERF.SRC]SB11.FOR: 1
                                               (devdepend, EMB$L_DV_REGSAV(2))
(devsts, EMB$L_DV_REGSAV(3))
(uba_reg1, EMB$L_DV_REGSAV(4))
(uba_reg2, EMB$L_DV_REGSAV(7))
0273
0275
0276
02776
02778
0281
0283
0283
0288
0288
0288
0291
0293
0296
0297
0298
0299
0299
0299
0299
0299
                       Equivalence
                        Equivalence
                        Equivalence
                       Equivalence
                       Define text for the tumble table
                       Data tt_protocol_id(0)
Data tt_protocol_id(1)
Data tt_protocol_id(2)
Data tt_protocol_id(3)
Data tt_protocol_id(4)
Data tt_protocol_id(5)
1 REQUESTED'/
                                                                      / PREMATURE END OF MESSAGE 1/
                                                                      /'BAD ADDRESS'/
                                                                      "ILLEGAL RESPONSE CONTROL CODE"/
                                                                     /'SEQUENCE BIT WRONG-NO REPEAT! COMMAND SENT'/
/'ILLEGAL MSG-LENGTH ON! NON ''SI'' RESPONSE'/
                                                                      /'ILLEGAL RESPONSE OF ''SI''! WHEN NOT
                       Data tt protocol id(6) /'ILLEGAL RESPONT TO REQUESTED'/
                                                                      "ILLEGAL RESPONSE OF "RNR" TO: "RI"
                                                                     /'ILLEGAL RESPONSE OF "RNR" TO: "RPS"
                       Data tt protocol id(7) /'ILLEGAL RESPO
                                                          /'PROTOCOL ERROR*'/
/'TIMEOUT ERROR*'/
                       Data
                                   tumble_tbl(5)
                                   tumble_tbl(6)
tumble_tbl(7)
                       Data
                                                          /'CRC ERROR*'/
                       Data
                       Define text for error number
0301
0302
0303
0304
0305
0306
0307
0308
0309
0311
0312
0313
                                                          /'LATENCY ERROR-NO DATA: TRANSFERRED'/
                       Data
                                   err_num(0)
                       Data
                                   err_num(1)
                                                          / LATENCY ERROR-DATA TRANSFERRED'/
                       Data
                                                          /'MEMORY TIMEOUT ERROR'/
                                   err_num(2)
                                   err_num(3)
                                                          /'ONLINE TRANSITION'/
                       Data
                                                          /'OFFLINE TRANSITION'/
                       Data
                                   err_num(4)
                       Data
                                   err_num(5)
                                                          /'DATA OVERRUN ERROR'/
                                   err_num(6)
                                                          /'WRITE FUNCTION TIMEOUT'/
                       Data
                                                          /'UNSOLICITED DATA'/
                       Data
                                   err_num(7)
                                                          /'LINE ERROR'/
                       Data
                                   err_num(8)
                                   err_num(9)
                                                          /'RESERVED'
                       Data
                                   err_num(10)
                                                          /'NO DATA TRANSFERRED'/
                       Data
0314
0315
0316
0317
                                   err_num(11)
                                                          /'INVALID TYPE 2 TUMBLE: TABLE ENTRY'/
                       Data
                                  err_num(12)
err_num(13)
err_num(14)
err_num(15)
                                                          /'I/O DONE WITH NO TRANSFER'/
                       Data
                                                           ONLINE I/O DONE'/
                       Data
                                                           'INVALID DEVICE UNIT NUMBER'/
                       Data
0318
0319
0320
0321
0322
0323
0324
0325
                       Data
                                   err_num(16)
err_num(17)
                                                           PORT WAIT QUEUE TIMEOUT'
                       Data
                                                           "USER INITIATED SHUTDOWN"/
                       Data
                                                           /'CONTROLLER STARTUP'/
/'INVALID TYPE 1 TUMBLE:TABLE ENTRY'/
                                   err_num(18)
                       Data
                                   err_num(19)
                       Data
                                  err_num(20)
err_num(21)
err_num(22)
err_num(23)
err_num(24)
err_num(25)
                                                           "DRIVER DATA STRUCTURE ERROR"/
                       Data
                                                           "RESERVED"
                       Data
                                                           "RESERVED"/
                       Data
                                                           "RESERVED"
                       Data
                                                           /'AST NOT DELIVERABLE'/
                       Data
                                                           "ENABLE LOGGING OF DECDATAWAY ERROR"
                       Data
                                   err_num(26)
                       Data
                                                          /'DISABLE LOGGING OF DECDATAWAY:ERROR'/
```

3

```
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
 SB11
                                                                                                                       VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]SB11.FOR; 1
                                err_num(27)
err_num(28)
err_num(29)
err_num(30)
err_num(31)
/'RESERVED'/
                      Data
                                                      /'RESERVED'/
                      Data
                                                      /'DRIVER INITIATED SHUTDOWN'/
                      Data
                      Data
                                                      /'RESERVED'/
                      Data
                      Define text for bits in CSRO
                                                      /'NO-OP*'/
                      Data
                                 func (0)
                                                      /'INITIATE TRANSFER OUT*'/
/'INITIATE TRANSFER IN*'/
                                 func(1)
                      Data
                                 func(2)
func(3)
                      Data
                                                       /'SEND TRANSPARENT DATA*'/
                      Data
                                                       /'SEND TRANSPARENT DATA-NO CRC+'/
                      Data
                                 func (4)
                                                       /'RESERVED*'/
                                 func (5)
                      Data
                                 func (6)
func (7)
                      Data
                                                       /'RESERVED*'/
                                                      /'CANCEL OPERATION*'/
                      Data
                                csr0_1(5)
csr0_1(6)
csr0_1(7)
                                                      / HARDWARE ERROR* 1/
                      Data
                                                      /'DONE INTERRUPT ENABLE*'/
                      Data
                      Data
0354
0355
0356
0357
0358
0359
0360
0361
0362
0363
0366
0367
0368
0369
0370
                      Define text for bits in CSR2
                                csr2_1(6)
csr2_1(7)
                                                      /'PORT AVAILABLE INTERRUPT ENABLE*'/
                      Data
                                                      /'PORT LOCK*'/
                      Data
                      Define the devices currently allowed on the DECdataway
                      Data
                                                      /'RT80+'/
                                 device(1)
                                                      /'DYT01*'/
                                 device(2)
                      Data
                      Data
                                                      /'DPM01+'/
                                 device(4)
                                                      /'DIS*'/
                      Data
                                 device(8)
0371
0372
0373
0374
0375
0376
0377
0378
0381
0382
0383
0384
0386
                      Define the text for the bit assignments in ucb$w_devsts
                      Data
                                                      /'REQUEST IN THE PORT-WAIT-QUEUE*'/
                                 dvsts(0)
                                                       "CANCEL IN PROGRESS*'/
                      Data
                                 dvsts(1)
                      Data
                                 dvsts(2)
                                                       "TRANSFER OPERATION IS REQUESTED+"/
                                 dvsts(3)
                                                       "UNIT IS ACTIVE+"
                      Data
                                 dvsts(4)
                                                       'SYSTEM ERROR LOGGING ENABLED+'/
                      Data
                                                       /'LOGGING OF ON/OFF LINE ENABLED*'/
/'USER ERROR LOG IS ENABLED*'/
                      Data
                                 dvsts(5)
                      Data
                                 dvsts(6)
                                                       "INHIBIT ERROR LOGGING"
                                 dvsts(7)
                      Data
                                                       /'UNIT IS SHUTDOWN*'/
/'REQUEST HAS TIMED OUT*'/
                      Data
                                 dvsts(8)
                                 dvsts(9)
                      Data
                                 dvsts(10)
                                                       /'RESERVED*'/
                      Data
```

```
E 16
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
SB11
388901234567890123456789011234567890123345678901233456789012344443
388991234567890123456789011234567890123345678901233456789012344443
                     Data
                                dysts(11)
                                                     /'REQUEST ONLINE*'/
                     Construct the error log report header
                     Call FRCTOF (lun)
                     call dhead1 (lun, 'UBA DEC DATAWAY')
                     Extract necessary information for later use
                     Hdr_map_valid = LIBSEXTZV (30,1,EMB$L_DV_NUMREG)
                     Dat_map_valid = LIBSEXTZV (31,1,EMB$L_DV_NUMREG)
                     No_irp = LIBSEXTZV (0,16,EMB$L_DV_NUMREG)
                     Decode and output the bits in the csr0 register
                     Csr0 = LIBSEXTZV (0,8,registers)
                     Call LINCHK (lun,2)
Write (lun,30) csr0
Format (/'',T8,'CSR0',T24,Z8.8)
           30
                     field = LIBSEXTZV (0,3,csr0)
                     Call LINCHK (lun,1)
                     Write (lun, 40) func(field)
Format (', T40, FUNCTION = ', A<COMPRESSC (func(field))> )
          40
                     Call OUTPUT (lun,csr0,csr0_1,5,5,7,'0')
                     Decode and output the bits in the csr1 register
                     Csr1 = LIBSEXTZV (8,8, registers)
                     Call LINCHK (lun,2)
                     Write (lun,50) csr1
format (/'', T8, 'CSR1', T24, Z8.8)
           50
                     Decode and output the bits in the csr2 register
                     (sr2 = LIBSEXTZV (16,8, registers)
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]SB11.FOR:1

```
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
SB11
                         Call LINCHK (lun,2)
Write (lun,55) csr2
Format (/'',T8,'CSR2',T24,Z8.8)
0044448901234567890123466678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
             55
                         Dataway_addr = LIB$EXTZV (0,6,csr2)
                         Call LINCHK (lun,1)
Write (lun,60) dataway_addr
Format (' ',T40,'DECDATAWAY ADDRESS = ',
1 I<COMPRESS4 (dataway_addr)>,'.')
            60
                         Call OUTPUT (lun, csr2, csr2_1,6,6,7,'0')
                         Decode and output the mapping information for the header and/or
                          data buffers
                         If (no_irp .eq. 10) then
                         If (hdr_map_valid .eq. 1) then
                         Call LINCHK (lun,3)
Write (lun,70)
Format (/' ', 'HEADER BUFFER MAPPING INFORMATION',/)
            70
                         call uba_mapping (lun,-1,uba_reg1(0))
                         call uba_mapping (lun,-1,uba_reg1(1))
                         call vecmapreg (lun, uba_reg1(2))
                         endif
                         If (dat_map_valid .eq. 1) then
                         Call LINCHK (lun,2)
Write (lun,80)
Format (/' ','DATA BUFFER MAPPING INFORMATION')
            80
                         call uba_mapping (lun,-1,uba_reg2(0))
                         call uba_mapping (lun,-1,uba_reg2(1))
                         call vecmapreg (lun, uba_reg2(2))
                         Endif
Endif
                          Decode and output the 'dataway' protocol and error status
                          information
                         Call LINCHK (lun,2)
Write (lun,90)
format (/' ', 'DECDATAWAY PROTOCOL AND STATUS INFORMATION')
             90
                          Call LINCHK (lun,2)
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]SB11.FOR:1

```
G 16
SB11
                                                                                                                                                                                                                                                 16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
                                                            Write (lun,100) err sts
Format (/' ',18,'ERROR STATUS',124,28.8)
                              100
                                                            field = LIB$EXTZV (0,5,err_sts)
                                                            Call OUTPUT_MLINES (lun,err_num(field),'!',32)
0509
05112
055113
055114
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05511
                                                            find out if the tumble table entry is valid and output it when
                                                            necessary
                                                            If (field .eq. 7
                                                            1 .or.
2 field .eq. 8) then
                                                           110
                                                            Tumble_table = LIB$EXTZV (16,8,err_sts)
                                                            If (field .eq. 8) then
                                                            Tt_retry_cnt = LIB$EXTZV (0,2,tumble_table)
                                                            Call LINCHK (lun,2)
                                                          Write (lun, 120) tt_retry_cnt + 1

format ('', T40, 'REPEAT COUNT = ',

1 I<COMPRESS4 (tt_retry_cnt)>,'.')

Write (lun, 121)

format ('')
                              120
                              121
                                                            Call OUTPUT (lun, tumble_table, tumble_tbl,5,5,7,'0')
                                                            Tt_protocol_err = LIB$EXTZV (5,1,tumble_table)
                                                            If (tt_protocol_err .eq. 1) then
                                                            Field = LIB$EXTZV (2,3,tumble_table)
                                                            Call OUTPUT_MLINES (lun, tt_protocol_id(field),'!',32)
                                                            Endif
Endif
0544
0545
0546
0547
0548
0550
0551
0552
0553
                                                            If (field .eq. 7) then
                                                           Call LINCHK (lun,2)
Write (lun,130) tumble table
format (/'',140, 'DATA = ',24.4)
                              130
                                                            Endif
                                                            Call LINCHK (lun,1)
Write (lun,140) ('*', I=1,34)
format ('',140,34A1)
0556
0557
                              140
                                                            Endif
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]SB11.FOR; 1

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]SB11.FOR; 1

```
I 16
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
SB11
Port_id = port_id + 1
                       Else if (port_id .eq. 3) then
Port_id = port_id + 2
Endit
                       Write (lun, 165) device(field),port_id
Format (', T40,A<COMPRESSC (device(field))>,I1)
            165
                       Else if (field .eq. dyt01) then
                        Device is a DYTO1 , it has only one port so output the
                        device type
                       Write (lun, 167) device(field)
Format (' ,T40,A<COMPRESSC (device(field))>)
            167
                        Else if (field .eq. dpm01
                           field .eq. dis) then
                       The device is either a DPM01 or Distributed Intelligent Subsystem, both currently support four ports (0-3). Output the device type and the port identification
            000
                       Write (lun,170) device(field).port_id
format (',140,A<COMPRESSC (device(field))>,
1 '- PORT #',11)
            170
                       endif
                       If (att_ucb0 .eq. 1) then
                       Call LINCHK (lun,1)
Write (lun,175)
Format (',740,'ATTENTION UCBO')
            175
                       Endif
                       Call LINCHK (lun,2)
Write (lun,180) devsts
Format (/' ',T8,'UCB$W_DEVSTS',T24,Z8.8)
            180
                       Call OUTPUT (lun, devsts, dvsts, 0, 0, 11, '0')
                        if (no_irp .ne. 4) then
                        if (emb$w_hd_entry .ne. 98) then
                       call linchk (lun,1)
                       write(lun, 155)
0669
0670
0671
                        call sb11_qio (lun,emb$w_dv_func)
                        call irp$w_bcnt (lun,emb$w_dv_bcnt)
```

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]SB11.FOR; 1

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```
J 16
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
SB11
                                                                                                                                                                         VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]SB11.FOR; 1
0672
0673
0674
0675
0676
0677
0678
0679
0680
                               call irp$w_boff (lun,emb$w_dv_boff)
                               call irp$l_pid (lun,emb$l_dv_rqpid)
                              call irp$q_iosb (lun,emb$l_dv_iosb1)
endif
                               endif
0681
0682
                               Return
                               End
PROGRAM SECTIONS
                                                                                              Attributes
       Name
                                                                               Bytes
                                                                                                                                                       RD NOWRT LONG
RD NOWRT LONG
RD WRT LONG
                                                                                             PIC CON REL LCL SHR EXE PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE PIC OVR REL GBL SHR NOEXE
   O SCODE
       SPDATA
                                                                                  616
   2 SLOCAL
3 EMB
                                                                                                                                                                 WRT LONG
                                                                                7027
       Total Space Allocated
ENTRY POINTS
       Address Type
                                    Name
   0-00000000
                                    SB11
VARIABLES
                                                                                                          Address Type Name
       Address Type
                                   Name
                                    CSRT UCBO
                                                                                                      2-00000AEC
2-00000AF0
                                                                                                                             I+2
L+1
     -00000AE9
                                                                                                                                       CSRO
      -00000AEE
                           1+2
                                                                                                                                       CSR2
                                                                                                        -00000AE8
                                                                                                                                      DAT MAP_VALID
                            1+4
                                    DATAWAY_ADDR
                           1+4
                                    DEVDEPEND
                                                                                                        -0000005E
                                                                                                                             I +4
                                   DEVDEPEND
EMB$B_DV_CLASS
EMB$B_DV_ERTMAX
EMB$B_DV_SLAVE
EMB$L_DV_CHAR
EMB$L_DV_IOSB2
EMB$L_DV_NUMREG
EMB$L_DV_OWNUIC
EMB$L_HD_SID
EMB$W_DV_BCNT
EMB$W_DV_ERRCNT
EMB$W_DV_STS
EMB$W_HD_ENTRY
ERR_STS
                                                                                                                                      EMB$B_DV_ERTCNT
EMB$B_DV_NAMLNG
EMB$B_DV_TYPE
EMB$L_DV_IOSB1
EMB$L_DV_MEDIA
EMB$L_DV_OPCNT
EMB$L_DV_RQPID
EMB$T_DV_NAME
EMB$L_DV_NAME
                           L+1
                                                                                                                             L+1
                           L+1
                                                                                                                             L+1
                           L+1
                                                                                                                              1
```

1 +4

1 +4 1 +4 CHAR

I*22 I*2 I*4 I*4

EMB\$W_DV_BOFF

EMB\$W_DV_FUNC EMB\$W_DV_UNIT

FIELD

NO_IRP

EMB\$W_HD_ERRSEQ

-00000032 -0000003C

-0000000E

00000AF8

00000B10

+4

1.4

ERR_STS

LUN

HDR MAP VALID

SB11				K 16 16-Sep-1984 00:15:02 5-Sep-1984 14:22:02	VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC	JSB11.FOR;1		
2-00000AEA 2-00000B04 2-00000B08	I+4 I+4	PORT_ID TT_PROTOCOL_ERR TUMBLE_TABLE	3-0000056 2-0000B00 2-0000AFC	I*4 REGISTERS I*4 TT_RETRY_CNT I*4 UNIT				
ARRAYS								
Address	Туре	Name		Dimensions				
2-0000080D 2-000084F 2-000088F 2-000008BF 3-00000000 3-00000052 3-0000006 2-0000725 2-00000000 2-0000298 3-000006E	CHAR CHAR CHAR CHAR L+1 I+4 CHAR CHAR CHAR CHAR L+4 I+4	CSRO_1 CSR2_1 DEVICE DVSTS EMB EMB\$L_DV_REGSAV EMB\$Q_HD_TIME ERR_NOM FUNC TT_PROTOCOL_ID TUMBLE_TBL UBA_REG1 UBA_REG2	66 64 48 552 512 420 1120 232 664 45 12	(5:7) (6:7) (8) (0:11) (0:511) (0:104) (2) (0:31) (0:7) (0:7) (0:7) (0:7) (0:2)				
LABELS								
Address	Labe		bel Address Label	Address Label	Address Label	Address Label		
1-0000051 1-00000EF 1-00001AE 1-0000213	30' 80' 130' 167'	1-0000063 40 1-0000115 90 1-0000101 14 1-000021F 17	0' 1-000001CB 150'	1-0000008E 55' 1-00000160 110' 1-000001E3 155' 1-0000024E 180'	1-000000A0 60° 1-0000018A 120° 1-000001E8 160°	1-00000006 70° 1-000001AA 121° 1-00000205 165°		
FUNCTIONS AND SUBROUTINES REFERENCED								
Type Name		Type Name	Type Name	Type Name	Type Name	Type Name		
OUTPL	ESS4 BCNT IT MLI DPCN	I*4 COMPRESS IRP\$W_B0 NES	FF I*4 LIBSEXTZV UBA MAPPING	FRCTOF LINCHK UCB\$B_ERTCNT VECMAPREG	IRP\$L_PID ORB\$L_OWNER UCB\$B_ERTMAX	IRP\$Q_IOSB OUTPUT UCB\$L_CHAR		

Subroutine SB11_QIO (lun,emb\$w_dv_func)

include 'src\$:qiocommon.for /nolist'

byte lun

integer*2 emb\$w_dv_func

integer*4 qiocode(0:1,0:63)

if (qiocode(0,0) .eq. 0) then

Qiocode(1,24) = %loc(10\$_WRITECSR)

Qiocode(1,25) = %loc(IO\$_READCSR)

Qiocode(1,26) = %loc(10\$_SETCHAR)

Qiocode(1,32) = %loc(10\$_WRITELBLK)

Qiocode(1,33) = %loc(10\$_READLBLK)

Qiocode(1,34) = %loc(10\$_ABORT)

Qiocode(1,35) = %loc(10\$_SETMODE)

Qiocode(1,36) = %loc(10\$_WRITEWTHBUF)

Qiocode(1,37) = %loc(10\$_READWTHBUF)

Qiocode(1,39) = %loc(10\$_SENSEMODE)

Qiocode(1,40) = %loc(10\$_WRITEBUFNCRC)

Qiocode(1,41) = %loc(IO\$_READWTHXBUF)

Qiocode(1,48) = %loc(IO\$_WRITEVBLK)

Qiocode(1,49) = %loc(10\$_READVBLK)

do 10,i = 0.63

qiocode(0,i) = 33

if (qiocode(1,i) .eq. 0) then

qiocode(1,i) = %loc(qio_string)

endif

```
M 16
                                                                                                                                                                                                                             16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
 SB11_Q10
                                                                                                                                                                                                                                                                                                              VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]SB11.FOR; 1
0321
0322
0323
0324
0325
0326
0327
0328
0329
                            10
                                                        continue
                                                        endif
                                                       call irp$w_func (lun,emb$w_dv_func,
1 qiocode(0,lib$extzv(0,6,emb$w_dv_func)))
                                                        return
                                                        end
PROGRAM SECTIONS
              Name
                                                                                                                                             Bytes
                                                                                                                                                                         Attributes
                                                                                                                                                                         PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE PIC OVR REL GBL SHR NOEXE
       O SCODE
                                                                                                                                                    197
                                                                                                                                                                                                                                                                                RD NOWRT LONG
                                                                                                                                                548
1247
         1 SPDATA
                                                                                                                                                                                                                                                                                RD NOWRT
                                                                                                                                                                                                                                                                                                               LONG
         2 SLOCAL
                                                                                                                                                                                                                                                                                RD
                                                                                                                                                                                                                                                                                                 WRT
                                                                                                                                                                                                                                                                                                               LONG
        3 QIOCOMMON
                                                                                                                                                                                                                                                                                RD
                                                                                                                                                                                                                                                                                                 WRT
                                                                                                                                                                                                                                                                                                             LONG
              Total Space Allocated
                                                                                                                                                 2000
ENTRY POINTS
              Address Type Name
       0-00000000
                                                                 SB11_Q10
VARIABLES
 AP-0000008a I+2 EMB$W DV FUNC
3-0000442 CHAR IO$ ABORT
3-00003C2 CHAR IO$ ACPCONTROL
3-0000385 CHAR IO$ DEACCESS
3-0000026D CHAR IO$ DIAGNOSE
3-0000026C CHAR IO$ DSE
3-00000276 CHAR IO$ FORMAT
3-0000014 CHAR IO$ LOADMCODE
3-000003E2 CHAR IO$ MOUNT
3-000009D CHAR IO$ OFFSET
3-000009D CHAR IO$ READCSR
3-0000026C CHAR IO$ READCSR
3-0000028C CHAR IO$ READCSR
3-0000018C CHAR IO$ READCSR
3-0000001C CHAR IO$ READCSR
3-000001C CHAR IO$ READCSR
              Address Type Name
                                                                                                                                                                                             Address Type Name
                                                                                                                                                                                        2-00000200
3-00000340
                                                                                                                                                                                                                               CHAR IOS_ACCESS
CHAR IOS_AVAILABLE
CHAR IOS_CREATE
CHAR IOS_DELETE
CHAR IOS_DRVCLR
CHAR IOS_ERASETAPE
CHAR IOS_INITIALIZE
CHAR IOS_MODIFY
CHAR IOS_NOP
                                                                                                                                                                                        3-000004B3
3-00000369
3-00000393
                                                                                                                                                                                       3-00000393
3-00000065
3-00000071
3-000003A1
3-00000000
3-000000EB
3-0000013F
                                                                                                                                                                                                                                                IOS_MODIFY
IOS_NOP
IOS_PACKACK
IOS_RESTATS
IOS_READHEAD
IOS_READPBLK
IOS_READTRACKD
IOS_READWTHBUF
IOS_RECAL
IOS_RECAL
IOS_RETCENTER
IOS_RETCENTER
IOS_REWINDOFF
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                         3-0000013f
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                         3-00000195
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                        3-0000045A
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                        3-0000004D
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                        3-000001AB
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                        3-000000CA
3-000002C9
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                                                                 CHAR
                                                                                                                                                                                        3-00000024
                                                                                                                                                                                                                                                 105 SEEK
                                                                                                                                                                                                                                 CHAR
```

```
B 1
16-Sep-1984 00:15:02
5-Sep-1984 14:22:02
 SB11_Q10
                                                                                                                                                                                                                                                                                                                                                                                                            VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]SB11.FOR; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 14
                                                                                                                                                                                                                                                                                                  AR IOS SENSEMODE
HAR IOS SETCLOCK
HAR IOS SETMODE
HAR IOS SETMODE
HAR IOS SKIPRECORD
HAR IOS STARTDATAP
HAR IOS STARTDATAP
HAR IOS WRITECHECK
CHAR IOS WRITECSR
CHAR IOS WRITELBLK
CHAR IOS WRITERET
CHAR IOS WRITERET
CHAR IOS WRITEVBLK
CHAR IO
                                                            CHAR IOS SENSECHAR
CHAR IOS SETCHAR
CHAR IOS SETCLOCKP
CHAR IOS SKIPFILE
CHAR IOS STARTDATA
CHAR IOS STARTDATA
CHAR IOS STARTMPROC
CHAR IOS WRITEBUFNCRC
CHAR IOS WRITECHECKH
CHAR IOS WRITEHEAD
CHAR IOS WRITEHEAD
CHAR IOS WRITEPBLK
CHAR IOS WRITETRACKD
CHAR IOS WRITETRACKD
CHAR IOS WRITEWTHBUF
L*1 LUN
                                                                                                                                                                                                                                                3-0000309
3-0000388
3-000020D
3-00002FA
3-000010E
3-000000B4
3-0000020F
3-0000011E
3-000003FF
3-00000314
3-00000109
                -00000059
                -0000046B
             5-0000468
5-000001E4
5-00000153
5-00000247
5-0000017E
5-00000448
                                                                                                                                                                                                                                                3-00000326
3-00000257
      AP-00000004a L+1
                                                                                                                                                                                                                                                 3-000004A1
 ARRAYS
                  Address Type Name
                                                                                                                                                                                Bytes Dimensions
        2-00000000 I*4 QIOCODE
                                                                                                                                                                                   512 (0:1, 0:63)
LABELS
                   Address
                                                              Label
                                                                10
FUNCTIONS AND SUBROUTINES REFERENCED
        Type Name
                                                                                                             Type Name
                                    IRP$W_FUNC
                                                                                                              I*4 LIBSEXTZV
COMMAND QUALIFIERS
        FORTRAN /LIS=LIS$:SB11/OBJ=OBJ$:SB11 MSRC$:SB11
        /CHECK=(NOBOUNDS, OVERFLOW, NOUNDERFLOW)
/DEBUG=(NOSYMBOLS, TRACEBACK)
/STANDARD=(NOSYNTAX, NOSOURCE_FORM)
         /SHOW=(NOPREPROCESSOR, NOINCLUDE, MAP)
        /F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19
 COMPILATION STATISTICS
                                                                                                    8.68 seconds
18.05 seconds
          Run Time:
          Elapsed Time:
                                                                                                    232
221 pages
         Page faults:
        Dynamic Memory:
```

ER

RH

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